



PATENT  
Attorney Docket No.: 040879-5094

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Stanford W. Crane, Jr., <i>et al.</i>	)	Confirmation No.: 6576
	)	
Application No.: 09/867,438	)	Group Art Unit: 2827
	)	
Filed: May 31, 2001	)	Examiner: L. C. Thai
	)	
For: SEMICONDUCTOR DIE PACKAGE	)	
HAVING MESH POWER AND GROUND	)	
PLANES	)	

Commissioner for Patents  
U.S. Patent and Trademark Office  
2011 South Clark Place  
Customer Window  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(c)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicants bring to the attention of the Examiner the documents listed on the attached PTO Form 1449. Each item of information contained in this Information Disclosure Statement was first cited in an International Search Report issued by the European Patent Office in a counterpart PCT International application not more than three months prior to the filing of this Information Disclosure Statement. A copy of the Notification of Transmittal evidencing that the International Search Report was mailed on April 17, 2003 is attached.

Copies of the listed documents are attached. Applicants respectfully request that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form. A copy of the International Search Report is also enclosed for the Examiner's consideration.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed document is material or constitutes "Prior Art." If it should be determined that the listed document does not constitute "Prior Art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such document.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed document, should the document be applied against the claims of the present application.

**EXCEPT** for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§ 1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account 50-0310. This paragraph is intended to be a **CONSTRUCTIVE PETITION FOR EXTENSION OF TIME** in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,

**MORGAN, LEWIS & BOCKIUS LLP**

Dated: May 22, 2003

By: 

Todd P. Taylor

Reg. No. 48,513

**Customer No. 009629**

**MORGAN, LEWIS & BOCKIUS LLP**

1111 Pennsylvania Avenue, N.W.

Washington, D.C. 20004

Phone: 202.739.3000

Facsimile: 202.739.3001

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

PTO Form 1449

Attorney Docket No.  
040879-5094

Application No. 09/867,438

Applicants: Stanford W. Crane, Jr., et al.

Filing Date: May 31, 2001

Group Art Unit: 2827

## U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	4,819,131	Apr. 4, 1989	Watari	361	414	Aug. 26, 1987
	5,306,948	Apr. 26, 1994	Yamada et al.	257	690	Sep. 24, 1992
	5,541,449	Jul. 30, 1996	Crane, Jr. et al.	257	697	Mar. 11, 1994
	6,040,702	Mar. 21, 2000	Hembree et al.	324	755	Jul. 3, 1997
	5,307,012	Apr. 26, 1994	Bhattacharyya et al.	324	158 F	Mar. 25, 1993

## FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Sub Class	Translation YES NO	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>40879-5094W0</b>	<b>FOR FURTHER ACTION</b>	
see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
International application No. <b>PCT/US 02/ 05283</b>	International filing date (day/month/year) <b>25/02/2002</b>	(Earliest) Priority Date (day/month/year) <b>23/02/2001</b>
Applicant <b>SILICON BANDWIDTH INC.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

2  
☐ None of the figures.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/05283

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L23/40 H01L23/50 H05K7/10 G01R1/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H05K G01R H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 819 131 A (WATARI TOSHIHIKO) 4 April 1989 (1989-04-04)	8-10, 20-23
Y	column 1, line 35 -column 3, line 49	11-13, 24-30
A	figures 1-3,6	1-7, 14-19
Y	US 5 306 948 A (ISOMURA SATORU ET AL) 26 April 1994 (1994-04-26) column 4, line 51 -column 5, line 39 column 6, line 40 - line 59 column 10, line 28 - line 54 column 11, line 39 -column 12, line 4 column 12, line 62 -column 13, line 28; figures 1,2,4-10,14	1-7, 11-19

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

8 April 2003

Date of mailing of the international search report

17/04/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Morena, E

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/05283

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 541 449 A (CRANE JR STANFORD W ET AL) 30 July 1996 (1996-07-30)  column 9, line 19 -column 12, line 50 column 14, line 1 -column 15, line 10 column 21, line 14 - line 32 figures 3-8,11,16,32 -----	1-7, 14-19, 24-30
A	US 6 040 702 A (WOOD ALAN G ET AL) 21 March 2000 (2000-03-21) column 2, line 21 -column 3, line 11 column 6, line 13 -column 7, line 35 column 15, line 42 -column 16, line 39; figures 2A-2L,3,15,16 -----	1-30
A	US 5 307 012 A (CATTEDRA JIM ET AL) 26 April 1994 (1994-04-26) column 2, line 44 -column 4, line 62; claims 16-18; figure 1 -----	1-13

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 02/05283

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4819131	A	04-04-1989	JP 1998176 C	08-12-1995
			JP 7034455 B	12-04-1995
			JP 63056949 A	11-03-1988
			AU 592518 B2	11-01-1990
			AU 7763287 A	03-03-1988
			CA 1269763 A1	29-05-1990
			DE 3774370 D1	12-12-1991
			EP 0258056 A2	02-03-1988
US 5306948	A	26-04-1994	JP 5102262 A	23-04-1993
US 5541449	A	30-07-1996	AU 2115895 A	25-09-1995
			DE 69509878 D1	01-07-1999
			DE 69509878 T2	09-12-1999
			EP 0749640 A1	27-12-1996
			JP 10500246 T	06-01-1998
			WO 9524747 A1	14-09-1995
			US 6097086 A	01-08-2000
			US 5696027 A	09-12-1997
			US 5892280 A	06-04-1999
US 6040702	A	21-03-2000	AU 8476498 A	25-01-1999
			JP 2001509586 T	24-07-2001
			WO 9901775 A1	14-01-1999
			US 6313651 B1	06-11-2001
US 5307012	A	26-04-1994	NONE	